

CLAIMS

Having thus described our invention, what we claim as new and desire to secure by Letters Patent is as follows:

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5 *Sub. 91*

1. A filter for use in a recirculating tank, comprising:
 aggregate material; and
 a mattress-like woven material encapsulating the aggregate material, a
 weave of the mattress-like woven material being smaller than the aggregate
 material thereby preventing migration of the aggregate material.

1 2. The filter of claim 1, wherein the aggregate material is synthetic particles.

1 3. The filter of claim 2, wherein the synthetic particles are propylene or
 2 polychloride.

1 4. The filter of claim 2, wherein the synthetic particles have a specific gravity
 2 of approximately $9 \pm 3\%$.

1 5. The filter of claim 4, wherein the synthetic particles prevent compaction of
 2 the filter.

1 *Sub. 92* 6. The filter of claim 1, wherein the aggregate material ranges in diameter
 2 from .05mm to 1 ½ inches diameter.

1 7. The filter of claim 1, wherein the woven material is fabric or a synthetic
 2 material.

1 8. The filter of claim 7, wherein the synthetic material is propylene or ethylene
2 clothing.

1 9. The filter of claim 1, wherein only a single sized aggregate is encapsulated
2 in the woven cloth.

1 10. A recirculating filter system adapted for use in a septic system,
2 comprising:

3 a tank;

4 at least one mattress-like filter placed within the tank, the mattress-like
5 filter having aggregate material sealed therein.

1 11. The recirculating filter system of claim 10, wherein at the at least one
2 mattress-like filter is at least two mattress-like filters.

1 12. The recirculating filter system of claim 11, wherein each of the mattress-
2 like filters have a different sized aggregate sealed therein.

1 13. The recirculating filter system of claim 12, wherein a finer sized aggregate
2 filled mattress-like filter of the at least two mattress-like filters is placed on top
3 of a larger sized aggregate filled mattress-like filter of the at least two
4 mattress-like filters within the tank.

1 14. The recirculating filter system of claim 10, wherein the aggregate material
2 is synthetic particles.

1 *Sub F2* 16. The recirculating filter system of claim 14, wherein the synthetic particles
2 have a specific gravity of approximately .9 +/- 3%.

1 18. The recirculating filter system of claim 17, wherein the synthetic material
2 is propylene or ethylene clothing.

20. The recirculating filter system of claim 10, wherein the tank includes
troughs integrally formed in at least the bottom and sides thereof.

1 *Sw* 22. The recirculating filter system 10, wherein the tank is a precast concrete or
2 *Fr* a synthetic material.

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